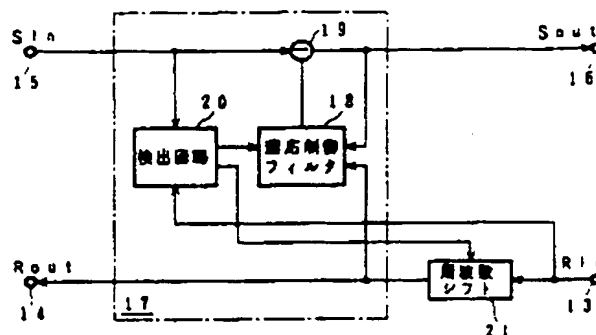


## Patent Abstracts of Japan

TITLE : METHOD AND CIRCUIT FOR  
SUPPRESSION OF HOWLING



**CONSTITUTION:** An echo canceler 17 as an echo adding means which generates the pseudo echo signal of the echo signal reaching the transmission system from a signal arriving at a reception system and adding the pseudo echo signal to the transmission system after inverting its phase and the frequency shifting circuit 21 which shifts the frequency component of the signal passed through the signal passage by the specific value are used in combination. When the frequency shifting circuit 21 is inserted into the signal passage of the reception system, a frequency shifting function is stopped in the operation of the adapting operation function of the echo canceler and started at the stop of the adapting operation function and when the frequency shifting circuit 21 is inserted into the signal passage of the transmission system, the frequency shifting function is started except during transmission. Consequently, the adapting operation and frequency shifting operation of the echo canceler are controlled properly in a no-call state, a transmission state, a reception state, and a duplex call state.

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